

# SIPERNAT<sup>®</sup> 820 A

Properties and test methods	Unit	Value
Specific surface area (N2) Multipoint following ISO 9277	m²/g	80
DOA absorption <sup>1)</sup> internal method	ml/100g	170
Particle size, d50 Laser diffraction following ISO 13320-1	μm	7.0
Loss on drying 2 h at 105°C following ISO 787-2	%	≤ 7.0
pH value 5 % in water following ISO 787-9	-	10.1
Sieve residue 45 µm spray following ISO 3262-19	%	≤ 0.2
Tamped density not sieved following ISO 787-11	g/I	210
Standard value Y following DIN 53163	-	≥95
Loss on ignition <sup>2)</sup> 2 h at 1000°C following ISO 3262-1	%	≤ 10.0
SiO <sub>2</sub> content <sup>3)</sup> following ISO 3262-19	%	≥ 80
Na content <sup>3)</sup> internal method	%	5.5
Al content <sup>3)</sup> internal method	%	6.0
Fe content <sup>3)</sup> internal method	ppm	≤ 400
Sulfate content <sup>1)</sup> internal method	%	≤ 1.5

#### \*) The given data are typical values. Specifications on request.

#### Registrations

## SIPERNAT<sup>®</sup> 820 A

CAS-No.	1344-00-9
REACH (Europe)	registered
TSCA (USA) AICS (Australia) DSL (Canada)	registered
PICCS (Philippines) IECS (China)	registered
ENCS (Japan)	registered
KECI (Korea)	registered
NZloC (New Zealand)	registered

SIPERNAT<sup>\*</sup> represents a specific product range of precipitated silica, aluminium and calcium silicates.

SIPERNAT<sup>®</sup> 820 A is a sodium aluminum silicate with a high level of whiteness and reduced coarse particles.

## **Properties and applications**

SIPERNAT<sup>®</sup> 820 A is highly recommended for partial substitution of white pigments in emulsion paints, as a matting agent for silk glossy paint systems and as a filler in printing inks. SIPERNAT<sup>®</sup> 820 A is also used as a special-purpose filler for mechanical graphics papers, as an extender for titanium dioxide in papermaking, and as a white pigment for coated papers. It has beneficial effects on reducing possible ink bleeding, the printability, smoothness and friction coefficient of the paper, as well as enhancing pitch control.

## Safety and handling

Information concerning the safety of this product is listed in the corresponding Safety Data Sheet, which will be sent with the first delivery or upon updating. Such information is also available from: Evonik Resource Efficiency GmbH, Product Safety Department, E-Mail: sds-hu@evonik.com. We recommend to read carefully the safety data sheet prior to the use of our product.

## Packaging and storage

For details regarding our packaging options for this product, please contact your local sales representative. Our silica products are inert and extremely stable chemically. However, due to their high specific surface area, they can absorb moisture and volatile organic compounds from the surrounding atmosphere. Therefore, we recommend storing the products in sealed containers in a dry, cool place, and removed from volatile organic substances. Even if a product is stored under these conditions, after a longer period it can still pick up ambient moisture over time, which could lead to its exceeding the specified moisture content. For this reason, our recommended use-by date is 24 months after date of manufacture. Product more than 24 months old should be tested for moisture content before use in order to make certain that it is still suitable for the intended application.

This information and any recommendations, technical or otherwise, are presented in good faith and believed to be correct as of the date prepared. Recipients of this information and recommendations must make their own determination as to its suitability for their purposes. In no event shall Evonik assume liability for damages or losses of any kind or nature that result from the use of or reliance upon this information and recommendations. EVONIK EXPRESSLY DISCLAIMS ANY REPRESENTATIONS AND WARRANTIES OF ANY KIND, WHETHER EXPRESS OR IMPLIED, AS TO THE ACCURACY, COMPLETENESS, NON-INFRINGEMENT, MERCHANTABILITY AND/OR FITNESS FOR A PARTICULAR PURPOSE (EVEN IF EVONIK IS AWARE OF SUCH PURPOSE) WITH RESPECT TO ANY INFORMATION AND RECOMMENDATIONS PROVIDED. Reference to any trade names used by other companies is neither a recommendation nor an endorsement of the corresponding product, and does not imply that similar products could not be used. Evonik reserves the right to make any changes to the information and/or recommendations at any time, without prior or subsequent notice.

#### Applied Technology Evonik Resource Efficiency GmbH **Business Line Silica** Rodenbacher Chaussee 4 63457 Hanau-Wolfgang Germany PHONE +49 6181 59-3536 FAX +49 6181 59-4096 ask-si@evonik.com www.sipernat.com

## Europe/ Middle-East/ Africa/Latin America

Evonik Resource Efficiency GmbH **Business Line Silica** Rodenbacher Chaussee 4 63457 Hanau-Wolfgang Germany PHONE +49 6181 59-8118 FAX +49 6181 59-78118 ask-si@evonik.com

www.sipernat.com

### North America **Evonik Corporation**

Business Line Silica 299 Jefferson Road USA PHONE +1 800 233-8052 FAX +1 973 929-8502 ask-si@evonik.com www.sipernat.com

#### **Asia-Pacific** Evonik (SEA) Pte. Ltd.

**Business Line Silica** 3 International Business Park Parsippany, NJ 07054-0677 #07-18, Nordic European Centre Singapore 609927 PHONE +65 6 809 6877 FAX +65 6 809 6677 ask-si-asia@evonik.com www.sipernat.com

